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| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|--------------------------------|------------------|
| - | 497 | (381/17).ccls. | USPAT; EPO; JPO; DERWENT USPAT | 2003/08/22 12:25 |
| - | 9 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2003/08/20 13:33 |
| - | 24 | (381/17).ccls. and HRTF and (time adj2 delay) | USPAT | 2003/08/20 14:25 |
| - | 5 | ("5438623" "5644640" "5822438" "5917916" "6243476").PN. | USPAT | 2003/08/20 13:47 |
| - | 30 | 5173944.URPN. | USPAT | 2003/08/20 13:53 |
| - | 37 | 5371799.URPN. | USPAT | 2003/08/20 13:54 |
| - | 18 | 5521981.URPN. | USPAT | 2003/08/20 13:56 |
| - | 1 | (381/17).ccls. and HRTF and (near-ear) | USPAT | 2003/08/20 13:58 |
| - | 5 | ("5438623" "5644640" "5822438" "5917916" "6243476").PN. | USPAT | 2003/08/20 13:58 |
| - | 0 | central-research.AS. and near-ear | USPAT | 2004/06/29 15:33 |
| - | 3 | research.AS. and near-ear | USPAT; EPO; JPO; DERWENT | 2003/08/20 14:13 |
| - | 0 | 9737514.URPN. | USPAT | 2003/08/20 14:02 |
| - | 11 | research.AS. and HRTF | USPAT; EPO; JPO; DERWENT | 2003/08/27 08:55 |
| - | 12 | sibbald.in. and HRTF | USPAT; EPO; JPO; DERWENT | 2004/10/04 15:30 |
| - | 1 | (381/17).ccls. and STCF | USPAT; EPO; JPO; DERWENT | 2003/08/20 14:36 |
| - | 18 | 5500900.URPN. | USPAT | 2003/08/20 14:29 |
| - | 3 | (381/17).ccls. and near-field | USPAT; EPO; JPO; DERWENT | 2003/08/20 14:33 |
| - | 2 | (381/17).ccls. and far-field | USPAT; EPO; JPO; DERWENT | 2003/08/20 14:33 |
| - | 2 | research.AS. and (ear adj2 gain) | USPAT; EPO; JPO; DERWENT | 2003/08/20 14:34 |
| - | 2 | research.AS. and HRTF and gain | USPAT; EPO; JPO; DERWENT | 2003/08/21 16:09 |
| - | 5 | (381/17).ccls. and inter-aural | USPAT; EPO; JPO; DERWENT | 2003/08/26 14:22 |
| - | 0 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2003/08/20 14:36 |
| - | 9 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2003/08/20 14:37 |
| - | 146 | hrtf | USPAT; EPO; JPO; DERWENT | 2003/08/20 14:54 |
| - | 5 | ("4748669" "5438623" "5930733" "5970153" "6067361").PN. | USPAT | 2003/08/20 14:47 |
| - | 0 | EP-06897560-\$ did. | USPAT; EPO; JPO; DERWENT | 2003/08/20 14:54 |
| - | 0 | EP-0689756-\$ did. | USPAT; EPO; JPO; DERWENT | 2003/08/20 14:54 |

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|--|-----|--|---------------------------|------------------|
| | 2 | EP-689756-\$.did. | USPAT; EPO; JPO; DERWENT | 2003/08/20 15:34 |
| | 9 | sony.AS. and HRTF | USPAT; EPO; JPO; DERWENT | 2003/08/20 16:05 |
| | 30 | sony.AS. and near-field | USPAT; EPO; JPO; DERWENT | 2003/08/20 16:05 |
| | 7 | (381/17) .cccls. and (right near2 gain) | USPAT; EPO; JPO; DERWENT | 2003/08/20 16:07 |
| | 0 | ("(computer near2 storage near2 medium) same (audio near4 process\$3)) | USPAT; EPO; JPO; DERWENT | 2003/08/20 09:24 |
| | 12 | (computer near2 storage near2 medium) same (audio near4 process\$3) | USPAT; EPO; JPO; DERWENT | 2003/08/21 09:28 |
| | 0 | (single adj2 channel near2 process\$3) same (computer adj2 program) | USPAT; EPO; JPO; DERWENT | 2003/08/21 09:29 |
| | 75 | (audio near2 process\$3) same (computer adj2 program) | USPAT; EPO; JPO; DERWENT | 2003/08/21 09:39 |
| | 31 | (audio near2 process\$3) same (computer adj2 medium) | USPAT; EPO; JPO; DERWENT | 2003/08/21 09:40 |
| | 6 | (381/17) .cccls. and (computer near2 medium) | USPAT; EPO; JPO; DERWENT | 2003/08/21 10:19 |
| | 5 | ("5414774" "5748513" "5761315" "5974153" "6009179") .PN. | USPAT | 2003/08/21 09:43 |
| | 15 | (381/17) .cccls. and (computer adj2 program) | USPAT; EPO; JPO; DERWENT | 2003/08/21 10:23 |
| | 7 | (381/17) .cccls. and (look-up near2 table) | USPAT; EPO; JPO; DERWENT | 2003/08/21 10:24 |
| | 19 | (381/17) .cccls. and (magnitude near3 signal) | USPAT; EPO; JPO; DERWENT | 2003/08/21 11:37 |
| | 2 | WO-9737514-\$.did. | USPAT; EPO; JPO; DERWENT | 2003/08/21 11:38 |
| | 0 | ("(process\$3near2singlenear2channel)") .PN. | USPAT; EPO; JPO; DERWENT | 2003/08/21 12:30 |
| | 17 | process\$3 near2 single near2 channel near2 audio | USPAT; EPO; JPO; DERWENT | 2003/08/21 12:43 |
| | 34 | 5208860.URPN. | USPAT | 2003/08/21 12:35 |
| | 3 | 5682433.URPN. | USPAT | 2003/08/21 12:37 |
| | 3 | 5682433.URPN. | USPAT | 2003/08/21 12:38 |
| | 641 | (369/61,86,97) .CCLS. | USPAT; US-PGPUB; EPO; JPO | 2003/08/21 12:51 |
| | 0 | (369/61,86,97) .cccls. and HRTF | USPAT | 2003/08/21 12:45 |
| | 0 | (369/61,86,97) .cccls. and HRTF | USPAT; EPO; JPO | 2003/08/21 12:45 |
| | 2 | (369/61,86,97) .cccls. and (head adj2 response) | USPAT; US-PGPUB; EPO; JPO | 2003/08/21 12:45 |
| | 12 | 4393489.URPN. | USPAT | 2003/08/21 12:48 |
| | 401 | (381/61) .CCLS. | USPAT; US-PGPUB; EPO; JPO | 2003/08/21 12:51 |

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|--|------|---|--------------------------|---------------------|
| | 351 | (381/61).CCLS. | USPAT; EPO; JPO | 2003/08/21 13:08 |
| | 1909 | pseudo near2 process\$3 | USPAT; EPO; JPO | 2003/08/21 12:56 |
| | 0 | (pseudo near2 process\$3) same HRTF | USPAT; EPO; JPO | 2003/08/21 12:56 |
| | 0 | (pseudo near2 process\$3) same (head adj2 response) | USPAT; EPO; JPO | 2003/08/21 12:57 |
| | 7 | (pseudo near2 process\$3) same (storage adj2 medium) | USPAT; EPO; JPO | 2003/08/21 12:57 |
| | 677 | process\$3 near2 single near2 channel | USPAT; EPO; JPO; DERWENT | 2003/08/21 12:59 |
| | 0 | (computer adj2 program) same HRTF | USPAT; EPO; JPO; DERWENT | 2003/08/21 13:00 |
| | 8 | (computer adj2 program) same (right near2 channel) | USPAT; EPO; JPO; DERWENT | 2003/08/21 13:04 |
| | 13 | ("4870600" "4962422" "5379369" "5519485" "5594843" "5917539" "5929861" "5953013" "5953014" "5973831" "6023263" "6031564" "6055012").PN. | USPAT | 2003/08/21 13:04 |
| | 446 | (381/77,79).CCLS. | USPAT; EPO; JPO | 2003/08/21 13:08 |
| | 9 | 5715317.URPN. | USPAT | 2003/08/21 13:22 |
| | 10 | ("4893342" "4910779" "4975954" "5034983" "5136651" "5333200" "5525862" "5684881" "5715317" "5799094").PN. | USPAT | 2003/08/21 13:23 |
| | 9 | 5684881.URPN. | USPAT | 2003/08/21 13:24 |
| | 18 | 5500900.URPN. | USPAT | 2003/08/21 13:40 |
| | 18 | 5500900.URPN. | USPAT | 2003/08/21 13:40 |
| | 18 | 5521981.URPN. | USPAT | 2003/08/21 13:40 |
| | 11 | 5742689.URPN. | USPAT | 2003/08/21 13:40 |
| | 7 | ("4506358" "4734934" "5027689" "5212733" "5440639" "5521981" "5734724").PN. | USPAT | 2003/08/21 13:44 |
| | 3 | (381/17).ccls. and (cues near3 percept\$3) | USPAT; EPO; JPO | 2003/08/21 13:52 |
| | 9 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2003/08/21 13:46 |
| | 9 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2003/08/21 13:49 |
| | 0 | (381/17).ccls. and (near-ear near2 table\$1) | USPAT; EPO; JPO | 2003/08/21 13:52 |
| | 0 | near-ear near2 table\$1 | USPAT; EPO; JPO | 2003/08/21 13:52 |
| | 2 | near-field near2 table\$1 | USPAT; EPO; JPO | 2003/08/21 13:53 |
| | 0 | (audio adj2 process\$3) same (near-field near2 table\$1) | USPAT; EPO; JPO | 2003/08/21 13:56 |
| | 87 | (near-field near2 distance) | USPAT; EPO; JPO | 2003/08/21 14:00 |
| | 1 | (near-field near4 ear) | USPAT; EPO; JPO | 2003/08/21 14:01 |
| | 8 | (near-field near4 audio) | USPAT; EPO; JPO | 2003/08/21 14:10 |
| | 7 | (381/1).ccls. and (binaur\$2 adj2 synthe\$4) | USPAT | 2003/08/21 14:17 |

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|--|-----|---|--------------------------------|---------------------|
| | 13 | ("4199658" "4741035" "4910779" "4975954" "5208860" "5371799" "5386082" "5440639" "5452359" "5495534" "5511129" "5521981" "5659619").PN. | USPAT | 2003/08/21 14:13 |
| | 0 | (381/1).ccls. and (inverse adj2 squar\$2 near2 depend\$4) | USPAT | 2003/08/21 14:18 |
| | 0 | (381/17).ccls. and (inverse adj2 squar\$2 near2 depend\$4) | USPAT | 2003/08/21 14:18 |
| | 0 | (381/1).ccls. and (inverse adj2 squar\$2 near3 sound) | USPAT | 2003/08/21 14:18 |
| | 1 | (381/17).ccls. and (inverse adj2 squar\$2 near3 sound) | USPAT | 2003/08/21 14:19 |
| | 0 | cues same (inverse adj2 squar\$2 near3 sound) | USPAT | 2003/08/21 14:19 |
| | 1 | cues same (inverse adj2 squar\$2) | USPAT | 2003/08/21 14:48 |
| | 18 | source adj2 posit\$3 near3 table | USPAT | 2003/08/21 14:48 |
| | 60 | source near2 posit\$3 near3 table | USPAT | 2003/08/21 14:53 |
| | 11 | ("4561102" "4991215" "5749065" "5774838" "5825311" "5878388" "5960388" "6018707" "6330534" "6330535" "6345247").PN. | USPAT | 2003/08/21 14:52 |
| | 352 | sound near2 source near2 posit\$3 | USPAT | 2003/08/21 14:53 |
| | 5 | ("4748669" "5438623" "5930733" "5970153" "6067361").PN. | USPAT | 2003/08/21 14:54 |
| | 15 | 5404406.URPN. | USPAT | 2003/08/21 15:06 |
| | 17 | monophon\$2 adj2 process\$3 | USPAT; EPO; JPO | 2003/08/21 15:50 |
| | 7 | clemow.in. and HRTF | USPAT; EPO; JPO; DERWENT | 2004/06/30 13:09 |
| | 0 | 9820707.URPN. | USPAT | 2003/08/21 16:01 |
| | 7 | nackvi.in. and HRTF | USPAT; EPO; JPO; DERWENT | 2003/08/21 16:02 |
| | 0 | central-research.AS. and HRTF and gain | USPAT; EPO; JPO; DERWENT | 2003/08/21 16:14 |
| | 0 | centralresearch.AS. and HRTF and gain | USPAT; EPO; JPO; DERWENT | 2003/08/21 16:20 |
| | 71 | "central research laboratories".AS. | USPAT; EPO; JPO; DERWENT | 2003/08/21 16:26 |
| | 3 | 5600727.URPN. | USPAT | 2003/08/21 16:22 |
| | 0 | "central research laboratories".in. | USPAT; EPO; JPO; DERWENT | 2003/08/21 16:26 |
| | 0 | central-research-laboratories.in. | USPAT; EPO; JPO; DERWENT | 2003/08/21 16:26 |
| | 4 | ("4555795" "5235646" "5301236" "5369224").PN. | USPAT | 2003/08/22 08:27 |
| | 9 | 4404427.URPN. | USPAT | 2003/08/22 08:34 |
| | 16 | ((("6005946") or ("6118875") or ("5208862") or ("5715815") or ("5600727") or ("6084970") or ("6496796") or ("5901232"))).PN. | USPAT; EPO; JPO; DERWENT | 2003/08/22 12:33 |
| | 2 | ("5751815").PN. | USPAT; EPO; JPO; DERWENT | 2003/08/22 12:34 |
| | 564 | (381/1).CCLS. | USPAT; EPO; JPO | 2003/08/22 13:14 |

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|--|-----|--|--------------------------------|---------------------|
| | 0 | 6385320.URPN. | USPAT | 2003/08/22 12:51 |
| | 1 | "5572591".PN. | USPAT | 2003/08/22 12:51 |
| | 10 | ("4893342" "4910779" "4975954" "5034983" "5136651" "5333200" "5525862" "5684881" "5715317" "5799094").PN. | USPAT | 2003/08/22 13:10 |
| | 0 | (381/1).ccls. and (gain adj2 table\$1) | USPAT; EPO; JPO | 2003/08/22 13:16 |
| | 0 | (381/1).ccls. and (delay near3 distan\$2 near4 table) | USPAT; EPO; JPO | 2003/08/22 13:17 |
| | 4 | (381/1).ccls. and (look near4 table) | USPAT; EPO; JPO | 2003/08/22 14:26 |
| | 1 | ("5333200").PN. | USPAT | 2003/08/22 14:28 |
| | 0 | ("near-fieldnear3distance").PN. | USPAT; EPO; JPO | 2003/08/22 14:29 |
| | 114 | near-field near3 distance | USPAT | 2003/08/22 14:32 |
| | 12 | (near-field near2 effects) same signal | USPAT | 2003/08/22 14:33 |
| | 1 | (near-field near2 effects) same audio | USPAT | 2003/08/22 14:44 |
| | 2 | (signal adj3 magnit\$3 near5 cue\$1) | USPAT; EPO; JPO | 2003/08/22 14:46 |
| | 0 | (cue\$1 near2 percept\$2) | USPAT; EPO; JPO | 2003/08/22 14:46 |
| | 71 | (cue\$1 near2 percept\$3) | USPAT; EPO; JPO | 2003/08/22 14:58 |
| | 164 | "central research lab".AS. | USPAT; EPO; JPO | 2004/10/04 15:16 |
| | 0 | "central research lab\$9".AS. | USPAT; EPO; JPO | 2003/08/22 15:03 |
| | 274 | "central research".AS. | USPAT; EPO; JPO | 2003/08/22 15:04 |
| | 9 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2003/08/22 15:04 |
| | 0 | (381/1,17).ccls. and (signal adj2 magnit\$3 same cue\$1) | USPAT; EPO; JPO | 2003/08/26 13:26 |
| | 0 | (381/1,17).ccls. and (signal adj2 magnit\$3 same percept\$3) | USPAT; EPO; JPO | 2003/08/22 15:11 |
| | 8 | (381/1,17).ccls. and (magnit\$3 same percept\$3) | USPAT; EPO; JPO | 2003/08/22 15:48 |
| | 623 | texas.AS. and sound | USPAT; EPO; JPO | 2003/08/22 15:32 |
| | 6 | "texas instruments".AS. and (3D adj2 sound) | USPAT; EPO; JPO | 2003/08/22 15:31 |
| | 135 | lueck.in. | USPAT; EPO; JPO | 2003/08/22 15:31 |
| | 1 | ("6442277").PN. | USPAT | 2003/08/22 15:32 |
| | 4 | ("5339363" "5521981" "6243476" "6307941").PN. | USPAT | 2003/08/22 15:32 |
| | 11 | (381/1,17).ccls. and (single near2 chann\$2 near2 audio) | USPAT; EPO; JPO | 2003/08/26 13:27 |
| | 16 | ("4817149" "5173944" "5272757" "5438623" "5581618" "5596644" "5729612" "5742689" "5751817" "5761314" "5764777" "5928311" "5943427" "6011754" "6021200" "6035045").PN. | USPAT | 2003/08/26 13:29 |
| | 16 | ("4817149" "5173944" "5272757" "5438623" "5581618" "5596644" "5729612" "5742689" "5751817" "5761314" "5764777" "5928311" "5943427" "6011754" "6021200" "6035045").PN. | USPAT | 2003/08/26 13:30 |
| | 11 | (381/17).ccls. and (single near2 channel near2 audio) | USPAT; EPO; JPO; DERWENT | 2003/08/26 14:22 |

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| | 11 | (381/1,17).ccls. and (single near2 channel near2 audio) | USPAT; EPO; JPO; DERWENT | 2003/08/26 14:24 |
| | 4 | (381/1,17).ccls. and (single near2 channel near2 process\$3) | USPAT; EPO; JPO; DERWENT | 2003/08/26 14:49 |
| | 34 | 5208860.URPN. | USPAT | 2003/08/26 14:39 |
| | 1102 | (381/1,17,18).ccls. | USPAT; EPO; JPO | 2003/08/27 08:27 |
| | 1 | (381/1,17,18).ccls. and (field near2 gain) | USPAT; EPO; JPO | 2003/08/27 08:31 |
| | 1 | (381/1,17,18).ccls. and (field adj2 effect\$1 near2 gain) | USPAT; EPO; JPO | 2003/08/27 08:32 |
| | 27 | (381/1,17,18).ccls. and (gain adj2 fact\$3) | USPAT; EPO; JPO | 2003/08/27 08:35 |
| | 1 | ("4136260").PN. | USPAT | 2003/08/27 08:36 |
| | 1 | GB-2232796-\$.did. | USPAT; EPO; JPO | 2003/08/27 08:37 |
| | 0 | EP-0160431-\$.did. | USPAT; EPO; JPO | 2003/08/27 08:37 |
| | 0 | EP-160431-\$.did. | USPAT; EPO; JPO | 2003/08/27 08:38 |
| | 0 | EP-0160431-\$.did. | USPAT; EPO; JPO | 2003/08/27 08:38 |
| | 0 | EP-0160431-\$.did. | USPAT; EPO; JPO | 2003/08/27 08:38 |
| | 2 | WO-9515069-\$.did. | DERWENT | |
| | 0 | GB-9813290-\$.did. | USPAT; EPO; JPO; DERWENT | 2003/12/31 11:34 |
| | 0 | GB-9813290.5-\$.did. | USPAT; EPO; JPO; DERWENT | 2003/08/27 08:55 |
| | 32 | method adj2 synthes\$6 adj2 audio | USPAT; EPO; JPO; DERWENT | 2003/08/27 08:59 |
| | 0 | EP-0689756-\$.did. | USPAT; EPO; JPO; DERWENT | 2003/08/27 09:00 |
| | 0 | EP-B-0689756-\$.did. | USPAT; EPO; JPO; DERWENT | 2003/08/27 09:06 |
| | 51 | (381/310).CCLS. | USPAT; EPO; JPO | 2003/08/27 11:05 |
| | 67 | audio adj2 process\$3 near2 program | USPAT; EPO; JPO | 2003/08/27 09:50 |
| | 1 | (single adj2 chann\$2) same (audio adj2 process\$3 near2 program) | USPAT; EPO; JPO | 2003/08/27 09:51 |
| | 2 | (single adj2 chann\$2 adj3 process\$3) near2 program | USPAT; EPO; JPO | 2003/08/27 11:03 |
| | 40 | (381/303).CCLS. | USPAT; EPO; JPO | 2003/08/27 11:10 |
| | 2 | (3D adj2 sound) near synthe\$6 | USPAT; EPO; JPO | 2003/08/27 11:10 |
| | 9 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2003/08/27 11:11 |
| | 12 | "5742689" | USPAT | 2003/12/22 11:23 |
| | 0 | (381/17).ccls. and (head adj2 respon\$2) same magnit\$3 | USPAT; EPO; JPO; DERWENT | 2003/12/30 09:12 |
| | 0 | (381/1,17,18).ccls. and (head adj2 respon\$2) same magnit\$3 | USPAT; EPO; JPO | 2003/12/30 09:12 |
| | 8 | (381/1,17,18).ccls. and (HRTF) same magnit\$3 | USPAT; EPO; JPO | 2003/12/30 09:19 |

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| | | 5 ("4748669" "5438623" "5930733" "5970153" "6067361").PN. | USPAT | 2003/12/30 09:13 |
| - | 2 | (381/1,17,18).ccls. and (inverse near2 square) same magnit\$3 | USPAT; EPO; JPO | 2003/12/30 09:20 |
| - | 6 | (381/1,17,18).ccls. and (inverse near2 square) same distance | USPAT; EPO; JPO | 2003/12/30 09:22 |
| - | 4 | (381/1,17,18).ccls. and (linear near2 scale) | USPAT; EPO; JPO | 2003/12/30 09:22 |
| - | 1 | ("5943427").PN. | USPAT | 2003/12/31 08:39 |
| - | 12 | ("3665105" "4648115" "4731848" "4792974" "4817149" "4908858" "5046097" "5073942" "5337363" "5371799" "5500900" "5521981").PN. | USPAT | 2003/12/31 08:40 |
| - | 3 | 5943427.URPN. | USPAT | 2003/12/31 10:26 |
| - | 1 | (381/1,17,18).ccls. and (ILD) same gain | USPAT; EPO; JPO | 2004/01/02 10:50 |
| - | 6 | (381/1,17,18).ccls. and (interaur\$2 adj2 level adj2 differe\$3) | USPAT; EPO; JPO | 2003/12/31 10:35 |
| - | 7 | (381/1,17,18).ccls. and (gain near4 distanc\$2) | USPAT; EPO; JPO | 2004/01/02 08:29 |
| - | 0 | (381/1,17,18).ccls. and (computer near2 program) same HRTF | USPAT; EPO; JPO | 2003/12/31 10:36 |
| - | 0 | (381/1,17,18).ccls. and (computer near2 program) same (head near2 response) | USPAT; EPO; JPO | 2003/12/31 10:36 |
| - | 0 | (381/1,17,18).ccls. and (program) same (head near2 response) | USPAT; EPO; JPO | 2003/12/31 10:36 |
| - | 0 | (381/1,17,18).ccls. and (combin\$3) same left same right same (other near3 chann\$3) | USPAT; EPO; JPO | 2003/12/31 10:41 |
| - | 124 | (381/1,17,18).ccls. and (combin\$3) same left same right same (chann\$3) | USPAT; EPO; JPO | 2004/01/09 12:55 |
| - | 34 | (381/1,17,18).ccls. and (combin\$3) near3 left near3 right near4 (chann\$3) | USPAT; EPO; JPO | 2004/01/08 13:31 |
| - | 4 | (("6307941") or ("6259795") or ("5946400") or ("5822438")).PN. | USPAT | 2003/12/31 11:17 |
| - | 22 | sibbald.in. and (combin\$3) | USPAT; EPO; JPO; DERWENT; IBM TDB | 2003/12/31 11:20 |
| - | 24 | "central research".AS. and (audio near2 signal) | USPAT; EPO; JPO; DERWENT; IBM TDB | 2003/12/31 11:23 |
| - | 2 | WO-9410816-\$.did. | USPAT; EPO; JPO; DERWENT | 2003/12/31 11:34 |
| - | 2 | (("5440639") or ("5438623")).PN. | USPAT | 2003/12/31 11:34 |
| - | 7 | (381/1,17,18).ccls. and (inverse near2 squar\$1 near2 law) | USPAT; EPO; JPO | 2004/01/02 10:29 |
| - | 1 | (381/310).ccls. and (inverse near2 squar\$1 near2 law) | USPAT; EPO; JPO | 2004/01/05 16:09 |
| - | 2 | (inverse near2 squar\$1 near2 law) same cue\$1 | USPAT; EPO; JPO | 2004/01/05 12:29 |
| - | 1 | ("4817149").PN. | USPAT | 2004/01/02 08:29 |
| - | 14 | (381/1,17,18,310).ccls. and (look-up near2 table) | USPAT; EPO; JPO | 2004/06/28 14:15 |
| - | 4 | (381/1,17,18,310).ccls. and (sound near2 level near2 intens\$3) | USPAT; EPO; JPO | 2004/01/05 16:05 |
| - | 2 | (("6078622") or ("5983087")).PN. | USPAT | 2004/01/05 10:12 |
| - | 9 | (("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941")).PN. | USPAT | 2004/01/05 10:23 |
| - | 2 | (inverse near2 squar\$1) same cue\$1 | USPAT; EPO; JPO | 2004/01/05 11:44 |
| - | 19 | (inverse near2 squar\$1 near2 law) same gain | USPAT; EPO; JPO | 2004/01/05 12:32 |

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| | 40 | (inverse near2 squar\$1) same speak\$2 | USPAT; EPO; JPO | 2004/06/29 15:31 |
| | 836 | (381/104,105,107).ccls. | USPAT; EPO; JPO | 2004/01/05 14:42 |
| | 1 | (381/104,105,107).ccls. and (inverse near2 square) same distance | USPAT; EPO; JPO | 2004/01/05 16:09 |
| | 1 | (381/104,105,107).ccls. and (inverse near2 square) same gain | USPAT; EPO; JPO | 2004/01/06 17:21 |
| | 431 | (381/104/105,107).CCLS. | USPAT; EPO; JPO | 2004/01/05 14:43 |
| | 39 | ((381/104/105,107).CCLS.) and distance | USPAT; EPO; JPO | 2004/01/05 14:43 |
| | 540 | (381/17,310).CCLS. | USPAT; EPO; JPO | 2004/01/05 15:58 |
| | 2 | (("5473682") or ("5910990")).PN. | USPAT; EPO; JPO | 2004/01/05 15:14 |
| | 12 | ("3665105" "4648115" "4731848" "4792974" "4817149" "4908858" "5046097" "5073942" "5337363" "5371799" "5500900" "5521981").PN. | USPAT | 2004/01/05 15:27 |
| | 205 | (381/74).CCLS. | USPAT; EPO; JPO | 2004/01/05 15:58 |
| | 38 | (381/1,17,18,310).ccls. and (free near2 field) | USPAT; EPO; JPO | 2004/01/05 16:08 |
| | 9 | (381/1,17,18,310).ccls. and (near-field) | USPAT; EPO; JPO | 2004/01/05 16:05 |
| | 1 | (381/1,17,18,310).ccls. and (free near2 field) same gain | USPAT; EPO; JPO | 2004/01/05 16:08 |
| | 6 | (381/17,18,310).ccls. and (inverse near2 squar\$1 near2 law) | USPAT; EPO; JPO | 2004/01/08 11:45 |
| | 1 | (381/104,105,107).ccls. and (inverse near2 square) | USPAT; EPO; JPO | 2004/01/06 17:21 |
| | 102 | (inverse near2 squar\$1) same gain | USPAT; EPO; JPO | 2004/01/08 09:37 |
| | 30 | (inverse near2 squar\$1) near4 gain | USPAT; EPO; JPO | 2004/01/08 09:39 |
| | 0 | (inverse near2 squar\$1) near4 gain same distance | USPAT; EPO; JPO | 2004/01/08 09:39 |
| | 26 | (inverse near2 squar\$1) same gain same distance | USPAT; EPO; JPO | 2004/01/08 09:39 |
| | 19 | (381/17,18,310).ccls. and (program same (process\$3 near4 audio)) | USPAT; EPO; JPO | 2004/01/08 11:48 |
| | 24 | (381/17,18,310).ccls. and (computer same (process\$3 near4 audio)) | USPAT; EPO; JPO | 2004/01/08 12:43 |
| | 12 | (381/17,18,310).ccls. and (inaudib\$2) | USPAT; EPO; JPO | 2004/01/08 13:21 |
| | 4 | (381/17,18,310).ccls. and (transaur\$2 near2 crosstal\$1) | USPAT; EPO; JPO | 2004/01/08 13:23 |
| | 4 | (381/17,18,310).ccls. and (transaur\$2 near3 crosstal\$1) | USPAT; EPO; JPO | 2004/01/08 13:23 |
| | 0 | (381/1,17,18,310).ccls. and (combin\$3) near3 left near3 right same (other near2 chann\$3) | USPAT; EPO; JPO | 2004/01/08 13:31 |
| | 43 | (381/1,17,18,310).ccls. and (combin\$3) near3 left near3 right same (chann\$3) | USPAT; EPO; JPO | 2004/01/09 12:33 |
| | 1 | (381/1,17,18,310).ccls. and (binaural) near5 (stereo near3 speak\$3) | USPAT; EPO; JPO | 2004/01/08 13:43 |
| | 1 | "3236949".PN. | USPAT | 2004/01/08 13:33 |
| | 9 | ("3236949" "4893342" "4910779" "4975954" "5889867" "6009178" "6243476" "6307941" "6442277").PN. | USPAT | 2004/01/08 13:34 |
| | 1 | ("3236949").PN. | USPAT | 2004/01/08 13:43 |
| | 32 | 3236949.URPN. | USPAT | 2004/01/08 13:43 |
| | 2 | (381/1,17,18,310).ccls. and (hear\$3) same (single near2 ear) | USPAT; EPO; JPO | 2004/01/08 15:30 |
| | 6 | (381/1,17,18,310).ccls. and (single near2 ear) | USPAT; EPO; JPO | 2004/01/08 15:08 |

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| | 9 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2004/01/08 15:41 |
| | 250 | (381/1,17,18,310).ccls. and (surround) | USPAT; EPO; JPO | 2004/01/08 15:43 |
| | 61 | ("3170991" "3246081" "3249696" "3665105" "3697692" "3725586" "3745254" "3757047" "3761631" "3772479" "3849600" "3885101" "3892624" "3943293" "4024344" "4063034" "4069394" "4118599" "4139728" "4192969" "4218585" "4219696" "4237343" "4239937" "4303800" "4308423" "4308424" "4309570" "4332979" "4349698" "4355203" "4356349" "4393270" "4394536" "4408095" "4479235" "4489432" "4495637" "4497064" "4503554" "4567607" "4569074" "4589129" "4594610" "4594730" "4748669" "4856064" "4866774" "4953213" "5046097" "5105462" "5208860" "5251260" "5255326" "5319713" "5400405" "5533129" "5661808" "5692050" "5850454" "5883962").PN. | USPAT | 2004/01/08 15:44 |
| | 9 | ("5105462" "5371799" "5467401" "5581618" "5666425" "5822438" "5946400" "6259795" "6307941").PN. | USPAT | 2004/01/08 15:50 |
| | 3 | ("3725586" "4121059" "5982903").PN. | USPAT | 2004/01/08 16:14 |
| | 1 | ("5666425").PN. | USPAT | 2004/01/09 12:42 |
| | 0 | EP-689756-\$ did. | USPAT; EPO | 2004/01/09 12:42 |
| | 0 | EP-0689756-\$ did. | USPAT; EPO | 2004/01/09 12:42 |
| | 0 | EP-B0689756-\$ did. | USPAT; EPO | 2004/01/09 12:43 |
| | 0 | EP-B0689756-\$ did. | USPAT; EPO; JPO; DERWENT; IBM TDB | 2004/01/09 12:43 |
| | 0 | EP-0689756-\$ did. | USPAT; EPO; JPO; DERWENT; IBM TDB | 2004/01/09 12:43 |
| | 2 | EP-689756-\$ did. | USPAT; EPO; JPO; DERWENT; IBM TDB | 2004/01/09 12:43 |
| | 49 | (381/1,17,18,310).ccls. and (combin\$3) near3 (stereo) | USPAT; EPO; JPO | 2004/01/09 12:57 |
| | 26 | (381/1,17,18,310).ccls. and (combin\$3) near3 (stereo) same left same right | USPAT; EPO; JPO | 2004/01/09 12:57 |
| | 1 | ("5943427").PN. | USPAT | 2004/06/28 13:59 |
| | 19 | (381/1,17,18,310).ccls. and (distance same gain) and ea\$2 | USPAT; US-PGPUB; EPO; JPO | 2004/06/28 14:06 |
| | 0 | (381/1,17,18,310).ccls. and (distance near8 gain) near8 ea\$2 | USPAT; US-PGPUB; EPO; JPO | 2004/06/28 14:07 |
| | 114 | (381/1,17,18,310).ccls. and (distance and gain) and ea\$2 | USPAT; US-PGPUB; EPO; JPO | 2004/06/28 14:07 |
| | 5 | (381/1,17,18,310).ccls. and (look-up near2 table) and gain and distance | USPAT; EPO; JPO | 2004/06/28 14:15 |
| | 6 | (381/1,17,18,310).ccls. and (look-up near2 table) and gain and distance | USPAT; US-PGPUB; EPO; JPO | 2004/06/28 14:44 |

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|--|-----|---|---------------------------------|---------------------|
| | 1 | ("3969588").PN. | USPAT | 2004/06/28 14:44 |
| | 0 | "central research".AS. and distance same gain same inverse | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 15:34 |
| | 0 | "central".AS. and distance same gain same inverse | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 15:34 |
| | 4 | "central research".AS. and distance and gain and inverse | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 15:37 |
| | 5 | ("5438623" "5644640" "5822438" "5917916" "6243476").PN. | USPAT | 2004/06/29 15:37 |
| | 0 | "sibbald".AS. and distance and gain and inverse | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 15:38 |
| | 3 | "sibbald".in. and distance and gain and inverse | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 16:11 |
| | 0 | 6643375.URPN. | USPAT | 2004/06/29 15:38 |
| | 15 | ("1855149" "3236949" "3943293" "4097689" "4149036" "4192969" "4209665" "4219696" "4349698" "4975954" "4980914" "5128886" "5136651" "5440639" "5715317").PN. | USPAT | 2004/06/29 15:38 |
| | 582 | (inverse near2 squar\$1) same intensity | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 16:12 |
| | 269 | (inverse near squar\$1 near law) same intensity | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 16:12 |
| | 152 | (inverse near squar\$1 near law) same intensity and cu\$2 | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 16:14 |
| | 60 | (inverse near squar\$1 near law) same sound | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 16:17 |
| | 125 | (inverse near squar\$1 near law) and sound | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 16:30 |
| | 59 | (inverse near squar\$1 near law) and sound and ea\$2 | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 16:39 |
| | 5 | ("5369710" "5371799" "5440639" "5485514" "5812674").PN. | USPAT | 2004/06/29 16:33 |
| | 5 | (inverse near squar\$1 near law) same ear | USPAT; US-PGPUB; EPO; JPO | 2004/07/06 09:50 |
| | 0 | (inverse near squar\$1 near law) same headpho\$3 | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 17:08 |
| | 0 | (inverse near squar\$1 near law) near5 headpho\$3 | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 17:08 |
| | 14 | (inverse near squar\$1 near law) and headpho\$3 | USPAT; US-PGPUB; EPO; JPO | 2004/06/29 17:08 |
| | 5 | ("5369710" "5371799" "5440639" "5485514" "5812674").PN. | USPAT | 2004/06/29 17:09 |
| | 11 | sibbald.in. and gain | USPAT; EPO; JPO; DERWENT | 2004/06/30 13:09 |
| | 0 | 5751815.URPN. | USPAT | 2004/06/30 13:10 |
| | 27 | (381/1,17,18,310).ccls. and (distance same gain) | USPAT; US-PGPUB; EPO; JPO | 2004/07/06 09:24 |
| | 7 | 3969588.URPN. | USPAT | 2004/07/02 08:57 |

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| | 28 | (381/1,17,18,310).ccls. and (interaural adj2 time adj2 difference) | USPAT; US-PGPUB; EPO; JPO | 2004/10/04 15:09 |
| | 60 | (inverse near squar\$1 near law) same sound | USPAT; US-PGPUB; EPO; JPO | 2004/07/06 10:46 |
| | 1 | ("6009178").PN. | USPAT | 2004/07/06 10:46 |
| | 1 | ("5666425").PN. | USPAT | 2004/07/06 16:01 |
| | 1 | ("6307941").PN. | USPAT | 2004/07/06 16:01 |
| | 1 | (381/\$).ccls. and (magnitude near3 distance) same left same right | USPAT; US-PGPUB; EPO; JPO | 2004/10/04 15:47 |
| | 15 | ("1855149" "3236949" "3943293" "4097689" "4149036" "4192969" "4209665" "4219696" "4349698" "4975954" "4980914" "5128886" "5136651" "5440639" "5715317").PN. | USPAT | 2004/10/04 15:11 |
| | 24 | "central research".AS. and audio adj2 signal | USPAT; US-PGPUB; EPO; JPO | 2004/10/04 15:18 |
| | 1 | (381/\$).ccls. and (side adj2 function) same (alternate adj2 function) | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 13:16 |
| | 41 | sibbald.in. and audio | USPAT; EPO; JPO; DERWENT | 2004/10/04 15:30 |
| | 41 | sibbald.in. and audio | USPAT; EPO; JPO; DERWENT | 2004/10/04 15:30 |
| | 42 | sibbald.in. and audio | USPAT; US-PGPUB; EPO; JPO; DERWENT | 2004/10/04 15:31 |
| | 90 | (381/\$).ccls. and (near-field) | USPAT; US-PGPUB; EPO; JPO | 2004/10/04 17:02 |
| | 0 | (381/\$).ccls. and (near-field) same magnitude same distance | USPAT; US-PGPUB; EPO; JPO | 2004/10/04 15:48 |
| | 27 | (381/\$).ccls. and (near-field) same distance | USPAT; US-PGPUB; EPO; JPO | 2004/10/04 15:48 |
| | 109 | sound same (near-field) | USPAT; US-PGPUB; EPO; JPO | 2004/10/04 17:02 |
| | 15 | ("1855149" "3236949" "3943293" "4097689" "4149036" "4192969" "4209665" "4219696" "4349698" "4975954" "4980914" "5128886" "5136651" "5440639" "5715317").PN. | USPAT | 2004/10/04 17:03 |
| | 18 | 4975954.URPN. | USPAT | 2004/10/04 17:05 |
| | 32 | ("4118599" "4910779" "4975954" "5034983" "5136651" "5173944" "5333200" "5371799" "5381482" "5412731" "5420929" "5438623" "5440638" "5440639" "5459790" "5495534" "5495576" "5500900" "5521981" "5544249" "5557227" "5572591" "5579396" "5596644" "5598478" "5622172" "5659619" "5661812" "5684881" "5714997" "5729612" "5742689").PN. | USPAT | 2004/10/04 17:07 |
| | 24 | (381/\$).ccls. and interaural adj2 intensity adj2 differe\$3 | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 13:19 |
| | 27 | (interaural adj2 intensity adj2 differe\$3) and (gain or magnitude) | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 13:23 |

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|--|------|---|---------------------------|---------------------|
| | 388 | (inverse adj2 square adj2 law) and (gain or magnitude) | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 13:24 |
| | 52 | (inverse adj2 square adj2 law) same (gain or magnitude) | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 13:58 |
| | 4 | begault.in. | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 14:14 |
| | 1552 | wenzel.in. | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 14:15 |
| | 0 | wenzel.in. and head adj2 related adj2 transfer | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 14:15 |
| | 138 | "United States".AS. and NASA and sound | USPAT; US-PGPUB; EPO; JPO | 2004/10/05 14:16 |
| | 46 | 5438623.URPN. | USPAT | 2004/10/05 14:21 |
| | 5 | ("5438623" "5644640" "5822438" "5917916" "6243476").PN. | USPAT | 2004/10/05 14:23 |
| | 46 | 5438623.URPN. | USPAT | 2004/10/05 14:27 |
| | 18 | ("4087629" "4219696" "4251688" "4638506" "4731848" "4774515" "4817149" "4856064" "4908858" "5023913" "5027687" "5046097" "5105462" "5146507" "5173944" "5187692" "5208860" "5333200").PN. | USPAT | 2004/10/05 14:27 |